## Patent claims

- A paper machine for producing paper that can be gravure printed from a fibrous stock suspension, which can be supplied successively to a wire section, a pressing section, a drying section, a film press having a film roll for applying a coating color, a calender arranged downstream of the film press, and can be wound up on a paper roll.
  - The paper machine as claimed in claim 1, characterized in that the wire section is a twinwire section having a gap former.

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3. The paper machine as claimed in claim 1 or 2, characterized in that a predryer section for predrying the paper web is arranged upstream of the drying section.

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4. The paper machine as claimed in one of the preceding claims, characterized in that a smoothing unit, in particular a shoe calender, is arranged upstream of the film press.

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- 5. The paper machine as claimed in one of the preceding claims, characterized in that a float dryer, in particular one operated with thermal radiation, is arranged between the film press and the calender arranged after the latter.
- 6. The paper machine as claimed in one of the preceding claims, characterized in that the wire section and/or the pressing section have fabrics with fine clothing, in particular felt clothing with a fiber weight of less than 7 dtex.
- 7. The paper machine as claimed in one of the preceding claims, characterized in that the

pressing section comprises a tandem Nipco-Flex press and an additional third press, in particular an offset press.

- 5 8. The paper machine as claimed in one of the preceding claims, characterized in that the film press operates with coating color whose binder system contains starch.
- 10 9. The paper machine as claimed in claim 8, characterized in that the coating color has a solids proportion of less than 65%, in particular of less than 60%, preferably of less than 58%, measured in percent by mass.

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- 10. The paper machine as claimed in claim 8 or 9, characterized in that the coating color can be metered by a metering rod on the film roll.
- 20 11. The paper machine as claimed in claim 10, characterized in that the metering rod has a diameter of more than 20 mm, preferably more than 24 mm.
- 25 12. The paper machine as claimed in claim 10 or 11, characterized in that the rotational speed of the metering rod is more than 200 revolutions per minute, preferably more than 250 revolutions per minute.

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- 13. The paper machine as claimed in one of the preceding claims, characterized in that the film press roll has a diameter of more than 1500 mm.
- 35 14. The paper machine as claimed in one of the preceding claims, characterized in that a nozzle moistener for moistening the paper web is arranged upstream of the calender at a distance of less

than 1 second, based on the speed of the paper web, in particular of less than 0.6 seconds.

A paper machine for producing a paper, board, 15. 5 tissue or another fibrous web, comprising pressing section having at least one press nip and comprising an impingement dryer arranged immediately after the pressing section. particular as claimed in one of the preceding 10 claims, characterized in that the paper machine has an applicator for applying a coating color in the manner of а curtain or for the application of coating color or for spraying coating color on.

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- 16. The paper machine as claimed in claim 15. characterized in that it comprises a pressing section having at least one press impingement dryer arranged immediately after the 20 pressing section, a first part of section, an applicator for applying a coating color in the manner of a curtain or for the film application of coating color or for spraying coating color on, and then a second part of a 25 drying section.
  - 17. The paper machine as claimed in claim 15 or 16, characterized in that it has a machine speed of more than 1500 m/min, preferably of more than 1700 m/min, in particular of more than 1800 m/min.